

Introduction to Bacteria and Antibiotics

Lesson Plan Activity (Day 1)

ANSWER KEY

(1) Bacteria:

- a. Are single celled
- b. Have a cell structure that is the same as human cells
- c. Have a nucleus
- d. All of the above
- e. a and b only

(2) List 3 habitats of bacteria:

(3) In humans, bacteria can be beneficial by _____.

- a. Living in or colonizing sites that might otherwise be invaded by harmful bacteria.
- b. Aiding in digestion.
- c. Neutralizing flesh-eating viruses
- d. A and B only
- e. All of the Above

(4) What is an antibiotic?

- a. A chemical that kills viruses or stops them from replicating
- b. A chemical that kills bacteria or stops them from growing
- c. A chemical that is toxic to bacteria and not to humans
- d. A and B only
- e. B and C only

(5) What are the three ways that antibiotics use selective toxicity to kill bacteria?

(6) If you are “colonized” with bacteria, does that mean you have an infection?

(7) List 3 defense mechanisms used by the body to prevent harmful bacteria from entering the body:

(8) List three ways that bacteria spreads.

(9) Draw a line to connect the bacterial cell part to the correctly numbered label

- Nucleoid (DNA) → 1
- Ribosomes → 2
- Flagellum → 3
- Pilus → 4
- Cell wall → 5
- Cytoplasm → 6
- Capsule → 7
- Plasma membrane → 8

